

11/11/02

ANSWER 1 OF 35 MEDLINE

TI [Treatment of multiple sclerosis--1. New drugs may be effective but there still are frequent relapses].  
Behandling av multipel skleros--1. Nya lakemedel ger lindring vid tata skov.

L4 ANSWER 2 OF 35 MEDLINE

TI Topical delivery of liposomally encapsulated interferon evaluated by in vitro diffusion studies.

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Stable liquid **interferon formulations** containing an amino acid as stabilizing agent

L4 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Design of topically resorptive **interferon formulations**

L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Stabilized **interferon formulations**

L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Use of .alpha. interferons to enhance fertility in mammals

L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Topical delivery of liposomally encapsulated interferon evaluated by in vitro diffusion studies

L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Topical therapeutic composition containing lymphokines, with polymer bound redox couples as an oxidation inhibitor system

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Preservative for **interferon formulations**

L4 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Stabilized **interferon formulations**

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2002 ACS

TI Toxicity of human leukocyte interferon preparations in human bone-marrow cultures

L4 ANSWER 12 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

TI Topical delivery of liposomally encapsulated interferon evaluated by in vitro diffusion studies.

L4 ANSWER 13 OF 35 BIOSIS COPYRIGHT 2002 BIOSIS

TI TOPICAL DELIVERY OF LIPOSOMALLY ENCAPSULATED INTERFERON EVALUATED BY IN-VITRO DIFFUSION STUDIES.

L4 ANSWER 14 OF 35 USPATFULL

TI Stable protein and nucleic acid formulations using non-aqueous, anhydrous, aprotic, hydrophobic, non-polar vehicles with low reactivity

L4 ANSWER 15 OF 35 USPATFULL

TI Methionine containing animal cell culture medium and its use

L4 ANSWER 16 OF 35 USPATFULL

TI Stable protein and nucleic acid formulations using non-aqueous, anhydrous, aprotic, hydrophobic, non-polar vehicles with low reactivity.

L4 ANSWER 17 OF 35 USPATFULL  
TI Therapeutic applications of high dose interferon ✓

L4 ANSWER 18 OF 35 USPATFULL  
TI Stimulation of host defense mechanisms against tumors ✓

L4 ANSWER 19 OF 35 USPATFULL  
TI Stable aqueous alfa interferon solution formulations ✓

L4 ANSWER 20 OF 35 USPATFULL  
TI Stabilized monomeric protein compositions ✓

L4 ANSWER 21 OF 35 USPATFULL  
TI Stable, aqueous alfa interferon solution formulations ✓

L4 ANSWER 22 OF 35 USPATFULL  
TI Compounds and methods for inhibition of HIV and related viruses

L4 ANSWER 23 OF 35 USPATFULL  
TI Formulation processes for lipophilic proteins ✓

L4 ANSWER 24 OF 35 USPATFULL  
TI Stabilization of human interferon ✓

L4 ANSWER 25 OF 35 USPATFULL  
TI Stabilization of protein formulations ✓

L4 ANSWER 26 OF 35 USPATFULL  
TI Asialoglycoprotein - conjugated medicinal agent

L4 ANSWER 27 OF 35 USPATFULL  
TI Use of interferons of the alpha family to enhance fertility in mammals

L4 ANSWER 28 OF 35 USPATFULL  
TI Biologically stable interferon compositions comprising thimerosal ✓ *Done*

L4 ANSWER 29 OF 35 USPATFULL  
TI Biologically stable alpha-**interferon formulations** ✓

L4 ANSWER 30 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Stable, aqueous alfa interferon solution formulations.

L4 ANSWER 31 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN PEPTIDE/PROTEIN SUSPENDED FORMULATIONS.

L4 ANSWER 32 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN STABLE, AQUEOUS ALFA INTERFERON SOLUTION FORMULATIONS.

L4 ANSWER 33 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Method for the prevention and treatment of bovine mastitis.

L4 ANSWER 34 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN GAMMA INTERFERON FORMULATION.

L4 ANSWER 35 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Improved formulation for recombinant beta-interferon processes for recovery and stabilization of beta-interferon and the use thereof. ✓

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1999:231523 CAPLUS  
 DOCUMENT NUMBER: 130:257361  
 TITLE: Liquid **interferon-.beta.**  
**formulations**  
 INVENTOR(S): Tschoepe, Michael; Siklosi, Thomas; Schroeder, Peter;  
 Hofer, Hans  
 PATENT ASSIGNEE(S): Rentschler Biotechnologie G.m.b.H., Germany  
 SOURCE: PCT Int. Appl., 52 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE     |
|--|------|----------|------------------|----------|
| WO 9915193   | A1   | 19990401 | WO 1998-EP6065   | 19980923 |
| W: AU, CA, IL, JP, KR, US  |      |          |                  |          |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE |      |          |                  |          |
| AU 9896276   | A1   | 19990412 | AU 1998-96276    | 19980923 |
| EP 1017413   | A1   | 20000712 | EP 1998-950074   | 19980923 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  |      |          |                  |          |
| JP 2001517635  | T2   | 20011009 | JP 2000-512562   | 19980923 |
| PRIORITY APPLN. INFO.:   |      |          | EP 1997-116562 A | 19970923 |
|  |      |          | WO 1998-EP6065 W | 19980923 |
| REFERENCE COUNT:   | 4    |          |                  |          |
| REFERENCE(S):  |      |          |                  |          |
| (1) Bioferon Biochemische Substanzen GmbH & Co; EP 0529300 A 1993 CAPLUS   |      |          |                  |          |
| (2) Biogen Inc; WO 9828007 A 1998 CAPLUS                                   |      |          |                  |          |
| (3) Patel, S; US 5358708 A 1994 CAPLUS                                     |      |          |                  |          |
| (4) Toray Industries Inc; EP 0374257 A 1990 CAPLUS                         |      |          |                  |          |

=> d 13 ibib

L3 ANSWER 1 OF 1 USPATFULL  
 ACCESSION NUMBER: 87:15146 USPATFULL  
 TITLE: Stable interferon .beta. composition and a method of stabilizing interferon .beta.  
 INVENTOR(S): Cymbalista, Samuel, Jerusalem, Israel  
 PATENT ASSIGNEE(S): Inter-Yeda Ltd., Israel (non-U.S. corporation)

| PATENT INFORMATION: | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| US 4647454          |                |      | 19870303     |
| APPLICATION INFO.:  | US 1983-475177 |      | 19830314 (6) |

| PRIORITY INFORMATION: | NUMBER                          | DATE     |
|-----------------------|---------------------------------|----------|
| IL 1982-65277         |                                 | 19820317 |
| DOCUMENT TYPE:        | Utility                         |          |
| FILE SEGMENT:         | Granted                         |          |
| PRIMARY EXAMINER:     | Hazel, Blondel                  |          |
| LEGAL REPRESENTATIVE: | Ostrolenk, Faber, Gerb & Soffen |          |
| NUMBER OF CLAIMS:     | 13                              |          |
| EXEMPLARY CLAIM:      | 1,8                             |          |

LINE COUNT: 279  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 09:30:41 ON 11 JAN 2002)

FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS, USPATFULL, EUROPATFULL' ENTERED  
AT 09:31:33 ON 11 JAN 2002  
L1 0 S STABILIZED INTERFERON BETA FORMULATIONS  
L2 1 S INTERFERON BETA FORMULATIONS  
L3 1 S STABILIZED INTERFERON BETA

=> s interferon formulations  
L4 35 INTERFERON FORMULATIONS

=> s without human serum albumin  
4 FILES SEARCHED...  
L5 29 WITHOUT HUMAN SERUM ALBUMIN

=> s l4 and l5  
L6 0 L4 AND L5

=> d 15 1-29 ti

L5 ANSWER 1 OF 29 MEDLINE  
TI Sensitivity of protein C immunosensor with and **without**  
**human serum albumin**.

L5 ANSWER 2 OF 29 MEDLINE  
TI Passage of S-(+)- and R-(-)-ketoprofen across the human isolated perfused  
placenta.

L5 ANSWER 3 OF 29 MEDLINE  
TI Severely decompensated abdominal Wilson disease treated with peritoneal  
dialysis: a case report.

L5 ANSWER 4 OF 29 MEDLINE  
TI Enhanced recruitment of motile spermatozoa by prostasome inclusion in  
swim-up medium.

L5 ANSWER 5 OF 29 MEDLINE  
TI Studies on male infertility--acrosome reaction of the human sperm  
incubated in vitro.

L5 ANSWER 6 OF 29 MEDLINE  
TI Stabilization of a diluted aqueous mite allergen preparation by addition  
of human serum albumin. An intracutaneous test study.

L5 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2002 ACS  
TI Sensitivity of protein C immunosensor with and **without**  
**human serum albumin**

L5 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2002 ACS  
TI Recombinant vector containing an intron for stable expression of  
heterologous genes in mammalian cells

L5 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2002 ACS

TI Passage of S- (+)- and R- (-)-ketoprofen across the human isolated perfused placenta

L5 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2002 ACS  
TI manufacture of freeze-dried interleukin-6 compositions with improved stability and solubility

L5 ANSWER 11 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Bactericidal activity of bound ceftriaxone against *Streptococcus pneumoniae*.

L5 ANSWER 12 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI [Bactericidal activity of bound ceftriaxone against *Streptococcus pneumoniae*].  
ACTIVITE BACTERICIDE DE LA FRACTION LIEE DE LA CEFTRIAXONE SUR *STREPTOCOCCUS PNEUMONIAE*.

L5 ANSWER 13 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Sensitivity of protein C immunosensor with and **without** **human serum albumin**.

L5 ANSWER 14 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Passage of S- (+)- and R- (-)-ketoprofen across the human isolated perfused placenta.

L5 ANSWER 15 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Severely decompensated abdominal Wilson disease treated with peritoneal dialysis: A case report.

L5 ANSWER 16 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Antimicrobial activity of ceftriaxone compared with cefotaxime in the presence of serum albumin.

L5 ANSWER 17 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Enhanced recruitment of motile spermatozoa by prostatesome inclusion in swim-up medium.

L5 ANSWER 18 OF 29 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Stabilization of a diluted aqueous mite allergen preparation by addition of human serum albumin. An intracutaneous test study.

L5 ANSWER 19 OF 29 BIOSIS COPYRIGHT 2002 BIOSIS  
TI Passage of S- (+)- and R- (-)-ketoprofen across the human isolated perfused placenta.

L5 ANSWER 20 OF 29 BIOSIS COPYRIGHT 2002 BIOSIS  
TI Severely decompensated abdominal Wilson disease treated with peritoneal dialysis: A case report.

L5 ANSWER 21 OF 29 BIOSIS COPYRIGHT 2002 BIOSIS  
TI Enhanced recruitment of motile spermatozoa by prostatesome inclusion in swim-up medium.

L5 ANSWER 22 OF 29 BIOSIS COPYRIGHT 2002 BIOSIS  
TI MALE INFERTILITY ACROSOME REACTION OF HUMAN SPERM INCUBATED IN-VITRO.

L5 ANSWER 23 OF 29 BIOSIS COPYRIGHT 2002 BIOSIS  
TI STABILIZATION OF A DILUTED AQUEOUS MITE ALLERGEN PREPARATION BY ADDITION OF HUMAN SERUM ALBUMIN AN INTRACUTANEOUS TEST STUDY.

L5 ANSWER 24 OF 29 USPATFULL  
TI Pharmaceutical composition comprising albumin as an active ingredient

L5 ANSWER 25 OF 29 USPATFULL  
TI Drug composition comprising albumin as active ingredient

L5 ANSWER 26 OF 29 USPATFULL  
TI Enhance protein production method

L5 ANSWER 27 OF 29 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Primers for synthesising full-length cDNA and their use.

L5 ANSWER 28 OF 29 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Enhanced protein production method.

L5 ANSWER 29 OF 29 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN DRUG COMPOSITION COMPRISING ALBUMIN AS ACTIVE INGREDIENT.

L4 ANSWER 32 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN STABLE, AQUEOUS ALFA INTERFERON SOLUTION FORMULATIONS.

L4 ANSWER 33 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Method for the prevention and treatment of bovine mastitis.

L4 ANSWER 34 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN GAMMA INTERFERON FORMULATION.

L4 ANSWER 35 OF 35 EUROPATFULL COPYRIGHT 2002 WILA  
TIEN Improved formulation for recombinant beta-interferon processes for recovery and stabilization of beta-interferon and the use thereof.

=> d 14 1-35 IBIB

L4 ANSWER 1 OF 35 MEDLINE  
ACCESSION NUMBER: 1999080668 MEDLINE  
DOCUMENT NUMBER: 99080668 PubMed ID: 9863300  
TITLE: [Treatment of multiple sclerosis--1. New drugs may be effective but there still are frequent relapses].  
Behandling av multipel skleros--1. Nya lakemedel ger lindring vid tata skov.  
AUTHOR: Svenningsson A; Andersson M; Olsson T  
CORPORATE SOURCE: Neurologiska kliniken, Karolinska sjukhuset, Stockholm.  
SOURCE: LAKARTIDNINGEN, (1998 Dec 2) 95 (49) 5623-7, 5630. Ref:  
19  
PUB. COUNTRY: Journal code: LON; 0027707. ISSN: 0023-7205.  
Sweden  
(CLINICAL TRIAL)  
(CONTROLLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: Swedish  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199901  
ENTRY DATE: Entered STN: 19990202  
Last Updated on STN: 19990202  
Entered Medline: 19990119

L4 ANSWER 2 OF 35 MEDLINE  
ACCESSION NUMBER: 90225704 MEDLINE  
DOCUMENT NUMBER: 90225704 PubMed ID: 1691613  
TITLE: Topical delivery of liposomally encapsulated interferon evaluated by in vitro diffusion studies.  
AUTHOR: Egbaria K; Ramachandran C; Kittayanond D; Weiner N  
CORPORATE SOURCE: College of Pharmacy, University of Michigan, Ann Arbor 48109.  
CONTRACT NUMBER: AI/GM22303 (NIAID)  
SOURCE: ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, (1990 Jan) 34 (1) 107-10.  
PUB. COUNTRY: Journal code: 6HK; 0315061. ISSN: 0066-4804.  
United States  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199005  
ENTRY DATE: Entered STN: 19900622

Last Updated on STN: 19960129  
Entered Medline: 19900517

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1998:479439 CAPLUS  
DOCUMENT NUMBER: 129:86058  
TITLE: Stable liquid **interferon**  
formulations containing an amino acid as  
stabilizing agent  
INVENTOR(S): Dibiasi, Mary D.; Staples, Mark; Chung, Wen-Li;  
Scharin, Eric  
PATENT ASSIGNEE(S): Biogen, Inc., USA  
SOURCE: PCT Int. Appl., 45 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE       |
|---|------|----------|-----------------|------------|
| WO 9828007  | A1   | 19980702 | WO 1997-US23817 | 19971223   |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,<br>DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,<br>KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,<br>NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,<br>UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,<br>FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,<br>GA, GN, ML, MR, NE, SN, TD, TG |      |          |                 |            |
| AU 9856191  | A1   | 19980717 | AU 1998-56191   | 19971223   |
| AU 738362   | B2   | 20010913 |                 |            |
| EP 948358   | A1   | 19991013 | EP 1997-952621  | 19971223   |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO  |      |          |                 |            |
| CN 1245434  | A    | 20000223 | CN 1997-181499  | 19971223   |
| BR 9714434  | A    | 20000502 | BR 1997-14434   | 19971223   |
| JP 2001519770   | T2   | 20011023 | JP 1998-529056  | 19971223   |
| NO 9903121  | A    | 19990824 | NO 1999-3121    | 19990623   |
| PRIORITY APPLN. INFO.:  |      |          | US 1996-34353   | P 19961224 |
|   |      |          | WO 1997-US23817 | W 19971223 |

L4 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1997:192286 CAPLUS  
DOCUMENT NUMBER: 126:242660  
TITLE: Design of topically resorptive **interferon**  
formulations  
AUTHOR(S): Shchekanova, S. M.; Protasova, S. F.  
CORPORATE SOURCE: NII Gruppa, RAMN, St. Petersburg, Russia  
SOURCE: Vestn. Ross. Akad. Med. Nauk (1996), (9), 30-33  
CODEN: VAMEE3; ISSN: 0869-6047  
PUBLISHER: Meditsina  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: Russian

L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1997:38709 CAPLUS  
DOCUMENT NUMBER: 126:65363  
TITLE: Stabilized **interferon** formulations  
INVENTOR(S): Bumelis, Vladas-Algirdas; Janulaitis,

PATENT ASSIGNEE(S): Eugenijus-Arvydas; Mauricas, Mykolas; Radzevicius, Kostas  
SOURCE: Biotechnologijos Institutas "fermentas", Lithuania  
Lith., 9 pp.  
CODEN: LIXXFS  
DOCUMENT TYPE: Patent  
LANGUAGE: Lithuanian  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| LT 3987                | B    | 19960625 | LT 1994-2016    | 19940729 |
| PRIORITY APPLN. INFO.: |      |          | LT 1992-53      | 19920217 |

L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1991:222174 CAPLUS  
DOCUMENT NUMBER: 114:222174  
TITLE: Use of .alpha. interferons to enhance fertility in mammals  
INVENTOR(S): Hansen, Peter J.; Imakawa, Kazuhiko; Roberts, R. Michael; Thatcher, William W.  
PATENT ASSIGNEE(S): University of Florida Research Foundation, Inc., USA; University of Missouri  
SOURCE: U.S., 12 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| US 4997646 | A    | 19910305 | US 1989-312853  | 19890223 |

L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1990:104683 CAPLUS  
DOCUMENT NUMBER: 112:104683  
TITLE: Topical delivery of liposomally encapsulated interferon evaluated by in vitro diffusion studies  
AUTHOR(S): Egbaria, K.; Ramachandran, C.; Kittayanond, D.; Weiner, N.  
CORPORATE SOURCE: Coll. Pharm., Univ. Michigan, Ann Arbor, MI, 48109, USA  
SOURCE: Antimicrob. Agents Chemother. (1990), 34(1), 107-10  
CODEN: AMACCQ; ISSN: 0066-4804  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1988:192789 CAPLUS  
DOCUMENT NUMBER: 108:192789  
TITLE: Topical therapeutic composition containing lymphokines, with polymer bound redox couples as an oxidation inhibitor system  
INVENTOR(S): Evans, Sean A.; Terpinski, Eva A.; Testa, Douglas  
PATENT ASSIGNEE(S): Interferon Sciences, Inc., USA  
SOURCE: U.S., 11 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| US 4710376             | A    | 19871201 | US 1985-697320  | 19850201 |
| CA 1289883             | A1   | 19911001 | CA 1986-502248  | 19860219 |
| IL 77975               | A1   | 19900610 | IL 1986-77975   | 19860224 |
| PRIORITY APPLN. INFO.: |      |          | US 1985-697320  | 19850201 |

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1985:32270 CAPLUS  
DOCUMENT NUMBER: 102:32270  
TITLE: Preservative for **interferon**  
**formulations**  
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 59176216 | A2   | 19841005 | JP 1983-53325   | 19830328 |

L4 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1983:476913 CAPLUS  
DOCUMENT NUMBER: 99:76913  
TITLE: Stabilized **interferon** **formulations**  
INVENTOR(S): Kwan, Henry King Hong  
PATENT ASSIGNEE(S): Schering Corp., USA  
SOURCE: Eur. Pat. Appl., 13 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.                                    | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| EP 82481                                      | A1   | 19830629 | EP 1982-111665  | 19821215 |
| EP 82481                                      | B1   | 19850313 |                 |          |
| EP 82481                                      | B2   | 19900912 |                 |          |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE |      |          |                 |          |
| ZA 8208580                                    | A    | 19831026 | ZA 1982-8580    | 19821119 |
| AT 12073                                      | E    | 19850315 | AT 1982-111665  | 19821215 |
| FI 8204366                                    | A    | 19830624 | FI 1982-4366    | 19821220 |
| FI 70794                                      | B    | 19860718 |                 |          |
| FI 70794                                      | C    | 19861027 |                 |          |
| NO 8204285                                    | A    | 19830624 | NO 1982-4285    | 19821220 |
| NO 161036                                     | B    | 19890320 |                 |          |
| NO 161036                                     | C    | 19890628 |                 |          |
| AU 8291688                                    | A1   | 19830630 | AU 1982-91688   | 19821220 |
| AU 558966                                     | B2   | 19870219 |                 |          |
| ZA 8209344                                    | A    | 19831026 | ZA 1982-9344    | 19821220 |
| IL 67517                                      | A1   | 19881130 | IL 1982-67517   | 19821220 |
| DK 8205658                                    | A    | 19830624 | DK 1982-5658    | 19821221 |

|                        |    |          |                |          |
|------------------------|----|----------|----------------|----------|
| DK 158771              | B  | 19900716 |                |          |
| DK 158873              | C  | 19901231 |                |          |
| JP 58146504            | A2 | 19830901 | JP 1982-224785 | 19821221 |
| JP 05043689            | B4 | 19930702 |                |          |
| CA 1207665             | A1 | 19860715 | CA 1982-418237 | 19821221 |
| HU 28321               | O  | 19831228 | HU 1982-4137   | 19821222 |
| HU 190649              | B  | 19860929 |                |          |
| US 4496537             | A  | 19850129 | US 1983-532886 | 19830916 |
| PRIORITY APPLN. INFO.: |    |          | US 1981-334052 | 19811223 |
|                        |    |          | ZA 1982-8580   | 19821119 |
|                        |    |          | EP 1982-111665 | 19821215 |
|                        |    |          | US 1983-466707 | 19830215 |

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1977:495621 CAPLUS  
 DOCUMENT NUMBER: 87:95621  
 TITLE: Toxicity of human leukocyte interferon preparations  
 in  
 human bone-marrow cultures  
 AUTHOR(S): Nissen, C.; Speck, B.; Emoedi, G.; Iscove, N. N.  
 CORPORATE SOURCE: Dep. Intern. Med., Kantonssp. Basel, Basel, Switz.  
 SOURCE: Lancet (1977), 1(8004), 203-4  
 CODEN: LANCAO  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 12 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 ACCESSION NUMBER: 90020317 EMBASE  
 DOCUMENT NUMBER: 1990020317  
 TITLE: Topical delivery of liposomally encapsulated interferon  
 evaluated by in vitro diffusion studies.  
 AUTHOR: Egbaria K.; Ramachandran C.; Kittayanond D.; Weiner N.  
 CORPORATE SOURCE: College of Pharmacy, University of Michigan, Ann Arbor, MI  
 48109, United States  
 SOURCE: Antimicrobial Agents and Chemotherapy, (1990) 34/1  
 (107-110).  
 ISSN: 0066-4804 CODEN: AMACQ  
 COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article  
 FILE SEGMENT: 047 Virology  
 030 Pharmacology  
 037 Drug Literature Index  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English

L4 ANSWER 13 OF 35 BIOSIS COPYRIGHT 2002 BIOSIS  
 ACCESSION NUMBER: 1990:153024 BIOSIS  
 DOCUMENT NUMBER: BA89:80442  
 TITLE: TOPICAL DELIVERY OF LIPOSOMALLY ENCAPSULATED INTERFERON  
 EVALUATED BY IN-VITRO DIFFUSION STUDIES.  
 AUTHOR(S): EGBARIA K; RAMACHANDRAN C; KITTAYANOND D; WEINER N.  
 CORPORATE SOURCE: COLL. PHARM., UNIV. MICH., ANN ARBOR, MICH. 48109.  
 SOURCE: ANTIMICROB AGENTS CHEMOTHER, (1990) 34 (1), 107-110.  
 CODEN: AMACQ. ISSN: 0066-4804.  
 FILE SEGMENT: BA; OLD  
 LANGUAGE: English

L4 ANSWER 14 OF 35 USPATFULL  
 ACCESSION NUMBER: 2001:199759 USPATFULL  
 TITLE: Stable protein and nucleic acid formulations using

non-polar non-aqueous, anhydrous, aprotic, hydrophobic,  
vehicles with low reactivity  
INVENTOR(S): Maskiewicz, Victoria Knepp, Ridgefield, CT, United States  
Prestrelski, Steven Joseph, Mountain View, CA, United States  
Smith, Jessica G., Sunnyvale, CA, United States  
Huang, Manley T., Palo Alto, CA, United States

|                       | NUMBER   | KIND | DATE         |
|-----------------------|--|------|--------------|
| PATENT INFORMATION:   | US 2001038859  | A1   | 20011108     |
| APPLICATION INFO.:    | US 2001-849402   | A1   | 20010504 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1999-269685, filed on 14 Dec 1999, GRANTED, Pat. No. US 6264990 A 371 of International Ser. No. WO 1997-US18575, filed on 15 Oct 1997, UNKNOWN |      |              |

|  | NUMBER  | DATE          |
|--|---|---------------|
| PRIORITY INFORMATION:                      | US 1996-28167   | 19961016 (60) |
|  | US 1997-52920   | 19970715 (60) |
| DOCUMENT TYPE:                             | Utility   |               |
| FILE SEGMENT:                              | APPLICATION   |               |
| LEGAL REPRESENTATIVE:                      | ALZA Corporation, 1900 Charleston Road, P.O. Box 7210, M10-3, Mountain View, CA, 94039-7210 |               |
| NUMBER OF CLAIMS:                          | 17  |               |
| EXEMPLARY CLAIM:                           | 1   |               |
| LINE COUNT:                                | 992   |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |               |

L4 ANSWER 15 OF 35 USPATFULL  
ACCESSION NUMBER: 2001:190940 USPATFULL  
TITLE: Methionine containing animal cell culture medium and its use  
INVENTOR(S): Jarekrans, Mats, Ume.ang., Sweden  
Olovsson, Hans, Sundsvall, Sweden  
PATENT ASSIGNEE(S): Bionative AB, Ume.ang., Sweden (non-U.S. corporation)

|                     | NUMBER         | KIND | DATE                     |
|---------------------|----------------|------|--------------------------|
| PATENT INFORMATION: | US 6309862     | B1   | 20011030                 |
| APPLICATION INFO.:  | WO 9950399     |      | 19991007                 |
|                     | US 2000-647402 |      | 20001117 (9)             |
|                     | WO 1999-SE453  |      | 19990323                 |
|                     |                |      | 20001117 PCT 371 date    |
|                     |                |      | 20001117 PCT 102(e) date |

|                       | NUMBER                                 | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | SE 1998-1090                           | 19980330      |
|                       | US 1998-85392                          | 19980516 (60) |
| DOCUMENT TYPE:        | Utility                                |               |
| FILE SEGMENT:         | GRANTED                                |               |
| PRIMARY EXAMINER:     | Horlick, Kenneth R.                    |               |
| ASSISTANT EXAMINER:   | Spiegler, Alexander H.                 |               |
| LEGAL REPRESENTATIVE: | Burns, Doane, Swecker & Mathis, L.L.P. |               |
| NUMBER OF CLAIMS:     | 18                                     |               |

EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)  
LINE COUNT: 536  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 16 OF 35 USPATFULL  
ACCESSION NUMBER: 2001:116598 USPATFULL  
TITLE: Stable protein and nucleic acid formulations using  
non-aqueous, anhydrous, aprotic, hydrophobic,  
non-polar  
INVENTOR(S): vehicles with low reactivity.  
Knepp, Victoria Marie, Ridgefield, CT, United States  
Prestrelski, Steven Joseph, Mt. View, CA, United  
States  
PATENT ASSIGNEE(S): Smith, Jessica G., Sunnyvale, CA, United States  
Huang, Manley T., Palo Alto, CA, United States  
ALZA Corporation, Mountain View, CA, United States  
(U.S. corporation)

|                     | NUMBER          | KIND | DATE                     |
|---------------------|-----------------|------|--------------------------|
| PATENT INFORMATION: | US 6264990      | B1   | 20010724                 |
|                     | WO 9816250      |      | 19980423                 |
| APPLICATION INFO.:  | US 1999-269685  |      | 19991214 (9)             |
|                     | WO 1997-US18575 |      | 19971015                 |
|                     |                 |      | 19991214 PCT 371 date    |
|                     |                 |      | 19991214 PCT 102(e) date |

DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Nguyen, Daug Trong  
LEGAL REPRESENTATIVE: Clarke, Pauline A., Stone, Steven F.  
NUMBER OF CLAIMS: 12  
EXEMPLARY CLAIM: 1  
LINE COUNT: 980  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 17 OF 35 USPATFULL  
ACCESSION NUMBER: 2001:43703 USPATFULL  
TITLE: Therapeutic applications of high dose interferon  
INVENTOR(S): Tovey, Michael Gerard, Paris, France  
PATENT ASSIGNEE(S): Pharma Pacific Pty Ltd., New South Wales, Australia  
(non-U.S. corporation)

|                       | NUMBER              | KIND | DATE         |
|-----------------------|---------------------|------|--------------|
| PATENT INFORMATION:   | US 6207145          | B1   | 20010327     |
| APPLICATION INFO.:    | US 1997-853870      |      | 19970509 (8) |
| DOCUMENT TYPE:        | Utility             |      |              |
| FILE SEGMENT:         | Granted             |      |              |
| PRIMARY EXAMINER:     | Goldberg, Jerome D. |      |              |
| LEGAL REPRESENTATIVE: | Browdy And Neimark  |      |              |
| NUMBER OF CLAIMS:     | 15                  |      |              |
| EXEMPLARY CLAIM:      | 1                   |      |              |
| LINE COUNT:           | 1221                |      |              |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 18 OF 35 USPATFULL  
ACCESSION NUMBER: 1999:159475 USPATFULL  
TITLE: Stimulation of host defense mechanisms against tumors  
INVENTOR(S): Tovey, Michael Gerard, Paris, France

PATENT ASSIGNEE(S): Kaido, Thomas James, San Diego, CA, United States (4)  
Pharma Pacific Pty Ltd., Brighton-Le-Sands, Australia  
(non-U.S. corporation)

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 5997858     |      | 19991207     |
| APPLICATION INFO.:  | US 1997-853293 |      | 19970509 (8) |

|                       | NUMBER                          | DATE     |
|-----------------------|---------------------------------|----------|
| PRIORITY INFORMATION: | AU 1996-9765                    | 19960509 |
| DOCUMENT TYPE:        | Utility                         |          |
| FILE SEGMENT:         | Granted                         |          |
| PRIMARY EXAMINER:     | Johnson, Nancy A                |          |
| LEGAL REPRESENTATIVE: | Heller Ehrman White & McAuliffe |          |
| NUMBER OF CLAIMS:     | 16                              |          |
| EXEMPLARY CLAIM:      | 1                               |          |
| LINE COUNT:           | 987                             |          |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 19 OF 35 USPATFULL  
ACCESSION NUMBER: 1999:92285 USPATFULL  
TITLE: Stable aqueous alfa interferon solution formulations  
INVENTOR(S): Yuen, Pui-Ho C., Princeton Junction, NJ, United States  
Kline, Douglas F., Hoboken, NJ, United States  
PATENT ASSIGNEE(S): Schering Corporation, Kenilworth, NJ, United States  
(U.S. corporation)

|                       | NUMBER   | KIND | DATE         |
|-----------------------|--|------|--------------|
| PATENT INFORMATION:   | US 5935566   |      | 19990810     |
| APPLICATION INFO.:    | US 1998-96708  |      | 19980612 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1994-329813, filed on 11 Oct 1994, now patented, Pat. No. US 5766582 |      |              |
| DOCUMENT TYPE:        | Utility  |      |              |
| FILE SEGMENT:         | Granted  |      |              |
| PRIMARY EXAMINER:     | Sayala, Chhaya D.  |      |              |
| LEGAL REPRESENTATIVE: | Hoffman, Thomas D.   |      |              |
| NUMBER OF CLAIMS:     | 24   |      |              |
| EXEMPLARY CLAIM:      | 1  |      |              |
| LINE COUNT:           | 733  |      |              |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 20 OF 35 USPATFULL  
ACCESSION NUMBER: 1999:72713 USPATFULL  
TITLE: Stabilized monomeric protein compositions  
INVENTOR(S): Lee, Lihsyng Stanford, Princeton Junction, NJ, United States  
PATENT ASSIGNEE(S): Enzon, Inc., Piscataway, NJ, United States (U.S. corporation)

|                       | NUMBER   | KIND | DATE         |
|-----------------------|--|------|--------------|
| PATENT INFORMATION:   | US 5917021   |      | 19990629     |
| APPLICATION INFO.:    | US 1997-819033   |      | 19970317 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-417855, filed on 7 Apr 1995, now patented, Pat. No. US 5656730, issued on 12 Aug 1997 |      |              |

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Reeves, Julie  
LEGAL REPRESENTATIVE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
NUMBER OF CLAIMS: 13  
EXEMPLARY CLAIM: 1  
LINE COUNT: 679  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 21 OF 35 USPATFULL  
ACCESSION NUMBER: 1998:68516 USPATFULL  
TITLE: Stable, aqueous alfa interferon solution formulations  
INVENTOR(S): Yuen, Pui-Ho C., Princeton Junction, NJ, United States  
PATENT ASSIGNEE(S): Kline, Douglas F., Hoboken, NJ, United States  
Schering Corporation, Kenilworth, NJ, United States  
(U.S. corporation)

|  | NUMBER             | KIND | DATE         |
|--|--------------------|------|--------------|
| PATENT INFORMATION:                        | US 5766582         |      | 19980616     |
| APPLICATION INFO.:                         | US 1994-329813     |      | 19941011 (8) |
| DOCUMENT TYPE:                             | Utility            |      |              |
| FILE SEGMENT:                              | Granted            |      |              |
| PRIMARY EXAMINER:                          | Sayala, Chhaya D.  |      |              |
| LEGAL REPRESENTATIVE:                      | Hoffman, Thomas D. |      |              |
| NUMBER OF CLAIMS:                          | 11                 |      |              |
| EXEMPLARY CLAIM:                           | 1                  |      |              |
| LINE COUNT:                                | 652                |      |              |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |                    |      |              |

L4 ANSWER 22 OF 35 USPATFULL  
ACCESSION NUMBER: 1998:12044 USPATFULL  
TITLE: Compounds and methods for inhibition of HIV and  
related viruses  
INVENTOR(S): Morin, Jr., John M., Brownsburg, IN, United States  
Ternansky, Robert J., Indianapolis, IN, United States  
Noreen, Rolf, Huddinge, Sweden  
Lind, Peter Tomas, Huddinge, Sweden  
PATENT ASSIGNEE(S): Medivir AB, Huddinge, Sweden (non-U.S. corporation)

|  | NUMBER  | KIND | DATE         |
|--|---|------|--------------|
| PATENT INFORMATION:                        | US 5714503  |      | 19980203     |
| APPLICATION INFO.:                         | US 1995-455217  |      | 19950531 (8) |
| RELATED APPLN. INFO.:                      | Division of Ser. No. US 1995-395702, filed on 28 Feb<br>1995, now patented, Pat. No. US 5593993 which is a<br>division of Ser. No. US 1993-11940, filed on 1 Feb<br>1993, now abandoned which is a continuation-in-part of<br>Ser. No. US 1992-921890, filed on 29 Jul 1992, now<br>abandoned which is a continuation-in-part of Ser. No.<br>US 1991-739927, filed on 2 Aug 1991, now abandoned |      |              |
| DOCUMENT TYPE:                             | Utility   |      |              |
| FILE SEGMENT:                              | Granted   |      |              |
| PRIMARY EXAMINER:                          | Gerstl, Robert  |      |              |
| LEGAL REPRESENTATIVE:                      | Birch, Stewart, Kolasch & Birch, LLP  |      |              |
| NUMBER OF CLAIMS:                          | 16  |      |              |
| EXEMPLARY CLAIM:                           | 1   |      |              |
| LINE COUNT:                                | 12864   |      |              |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |      |              |

L4 ANSWER 23 OF 35 USPATFULL  
ACCESSION NUMBER: 97:56334 USPATFULL  
TITLE: Formulation processes for lipophilic proteins  
INVENTOR(S): Hanisch, Wolfgang H., Balmoral Heights, Australia  
Fernandes, Pete M., Walnut Creek, CA, United States  
Taforo, Terrance, Oakland, CA, United States  
Thomson, James W., Albany, CA, United States  
Cetus Corporation, Emeryville, CA, United States (U.S. corporation)

PATENT INFORMATION: US 5643566 19970701  
APPLICATION INFO.: US 1993-474769 19950607 (8)  
RELATED APPLN. INFO.: Division of Ser. No. US 1994-266832, filed on 28 Jun 1994 which is a continuation of Ser. No. US 1992-865411, filed on 7 May 1992, now abandoned which is a continuation of Ser. No. US 1986-923425, filed on 27 Oct 1986, now abandoned which is a continuation-in-part of Ser. No. US 1985-775751, filed on 13 Sep 1985, now patented, Pat. No. US 4992271

which *has been  
abandoned*  
DOCUMENT TYPE: is a continuation-in-part of Ser. No. US 1985-752403, filed on 5 Jul 1985, now abandoned which is a continuation-in-part of Ser. No. US 1984-592077, filed on 22 Mar 1984, now abandoned which is a division of Ser. No. US 1983-495896, filed on 18 May 1983, now patented, Pat. No. US 4462940 which is a continuation-in-part of Ser. No. US 1982-422421, filed on 23 Sep 1982, now abandoned

FILE SEGMENT: Utility  
PRIMARY EXAMINER: Granted  
ASSISTANT EXAMINER: Ulm, John  
LEGAL REPRESENTATIVE: Mertz, Prema  
NUMBER OF CLAIMS: Millen, White, Zelano & Branigan, P.C.  
EXEMPLARY CLAIM: 21  
NUMBER OF DRAWINGS: 1  
LINE COUNT: 4 Drawing Figure(s); 4 Drawing Page(s)  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 24 OF 35 USPATFULL  
ACCESSION NUMBER: 95:62465 USPATFULL  
TITLE: Stabilization of human interferon  
INVENTOR(S): Stewart, II, William E., Lewisville, TX, United States  
PATENT ASSIGNEE(S): Dallas Biotherapeutics, Inc., Dallas, TX, United States  
(U.S. corporation)

PATENT INFORMATION: US 5431909 19950711  
APPLICATION INFO.: US 1993-105923 19930813 (8)  
DISCLAIMER DATE: 20100817  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1991-790670, filed on 7 Nov 1991, now patented, Pat. No. US 5236707  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Schain, Howard E.

ASSISTANT EXAMINER: Touzeau, P. Lynn  
LEGAL REPRESENTATIVE: Baker & Botts  
NUMBER OF CLAIMS: 40  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 2 Drawing Page(s)  
LINE COUNT: 1211  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 25 OF 35 USPATFULL  
ACCESSION NUMBER: 94:93088 USPATFULL  
TITLE: Stabilization of protein formulations  
INVENTOR(S): Patel, Suman T., Neshanic Station, NJ, United States  
PATENT ASSIGNEE(S): Schering Corporation, Kenilworth, NJ, United States  
(U.S. corporation)

PATENT INFORMATION:   
APPLICATION INFO.:  
DOCUMENT TYPE:  
FILE SEGMENT:  
PRIMARY EXAMINER:  
ASSISTANT EXAMINER:  
LEGAL REPRESENTATIVE:  
NUMBER OF CLAIMS: 12  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 3 Drawing Page(s)  
LINE COUNT: 297  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 26 OF 35 USPATFULL  
ACCESSION NUMBER: 94:79784 USPATFULL  
TITLE: Asialoglycoprotein - conjugated medicinal agent  
INVENTOR(S): Kim, Chung Y., Seoul, Korea, Republic of  
Lee, Hyo S., Seoul, Korea, Republic of  
PATENT ASSIGNEE(S): Korea Green Cross Corporation, Korea, Republic of  
(non-U.S. corporation)

NUMBER KIND DATE  
-----  
PATENT INFORMATION: US 5346696 19940913  
WO 9222310 19921223  
APPLICATION INFO.: US 1993-983595 19930204 (7)  
WO 1992-KR23 19920619  
19930204 PCT 371 date  
19930204 PCT 102(e) date

NUMBER DATE  
-----  
PRIORITY INFORMATION: KR 1991-10186 19910619  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Wityshyn, Michael G.  
ASSISTANT EXAMINER: Sayala, C.  
LEGAL REPRESENTATIVE: Lowe, Price, LeBlanc & Becker  
NUMBER OF CLAIMS: 19  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 8 Drawing Page(s)  
LINE COUNT: 1025  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 27 OF 35 USPATFULL  
 ACCESSION NUMBER: 91:18764 USPATFULL  
 TITLE: Use of interferons of the alpha family to enhance fertility in mammals  
 INVENTOR(S): Hansen, Peter J., Gainesville, FL, United States  
 Imaikawa, Kazuhiko, Columbia, MO, United States  
 Roberts, R. Michael, Columbia, MO, United States  
 Thatcher, William W., Gainesville, FL, United States  
 University of Florida Research Foundation, Inc.,  
 Alachua, FL, United States (U.S. corporation)  
 Currators of the University of Missouri, Columbia, MO,  
 United States (U.S. corporation)

|  | NUMBER                                 | KIND | DATE         |
|--|--|------|--------------|
| PATENT INFORMATION:                        | US 4997646                             |      | 19910305     |
| APPLICATION INFO.:                         | US 1989-312853                         |      | 19890223 (7) |
| DOCUMENT TYPE:                             | Utility                                |      |              |
| FILE SEGMENT:                              | Granted                                |      |              |
| PRIMARY EXAMINER:                          | Moskowitz, Margaret                    |      |              |
| ASSISTANT EXAMINER:                        | Koh, Choon                             |      |              |
| LEGAL REPRESENTATIVE:                      | Mathews, Woodbridge & Collins          |      |              |
| NUMBER OF CLAIMS:                          | 46                                     |      |              |
| EXEMPLARY CLAIM:                           | 1                                      |      |              |
| NUMBER OF DRAWINGS:                        | 6 Drawing Figure(s); 3 Drawing Page(s) |      |              |
| LINE COUNT:                                | 810                                    |      |              |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |      |              |

L4 ANSWER 28 OF 35 USPATFULL  
 ACCESSION NUMBER: 89:56229 USPATFULL  
 TITLE: Biologically stable interferon compositions comprising thimerosal  
 INVENTOR(S): Kwan, Henry K. H., Summit, NJ, United States  
 PATENT ASSIGNEE(S): Schering Corporation, Kenilworth, NJ, United States  
 (U.S. corporation)

|  | NUMBER   | KIND | DATE         |
|--|--|------|--------------|
| PATENT INFORMATION:                        | US 4847079   |      | 19890711     |
| APPLICATION INFO.:                         | US 1987-77957  |      | 19870727 (7) |
| RELATED APPLN. INFO.:                      | Continuation of Ser. No. US 1985-759817, filed on 29 Jul 1985, now abandoned |      |              |
| DOCUMENT TYPE:                             | Utility  |      |              |
| FILE SEGMENT:                              | Granted  |      |              |
| PRIMARY EXAMINER:                          | Hazel, Blondel   |      |              |
| LEGAL REPRESENTATIVE:                      | Magatti, Anita W., Miller, Stephen I.  |      |              |
| NUMBER OF CLAIMS:                          | 12   |      |              |
| EXEMPLARY CLAIM:                           | 1  |      |              |
| LINE COUNT:                                | 215  |      |              |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |      |              |

L4 ANSWER 29 OF 35 USPATFULL  
 ACCESSION NUMBER: 85:6211 USPATFULL  
 TITLE: Biologically stable alpha-interferon formulations  
 INVENTOR(S): Kwan, Henry K., Summit, NJ, United States  
 PATENT ASSIGNEE(S): Schering Corporation, Madison, NJ, United States (U.S. corporation)

|                       | NUMBER   | KIND | DATE         |
|-----------------------|--|------|--------------|
| PATENT INFORMATION:   | US 4496537   |      | 19850129     |
| APPLICATION INFO.:    | US 1983-532886   |      | 19830916 (6) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1983-466707, filed on 15 Feb 1983, now abandoned which is a continuation-in-part of Ser. No. US 1981-334052, filed on 23 Dec 1981, now abandoned |      |              |

|  | NUMBER             | DATE     |
|--|--------------------|----------|
| PRIORITY INFORMATION:                      | ZA 1982-8580       | 19821119 |
|  | EP 1982-111665     | 19821215 |
| DOCUMENT TYPE:                             | Utility            |          |
| FILE SEGMENT:                              | Granted            |          |
| PRIMARY EXAMINER:                          | Hazel, Blondel     |          |
| LEGAL REPRESENTATIVE:                      | Miller, Stephen I. |          |
| NUMBER OF CLAIMS:                          | 7                  |          |
| EXEMPLARY CLAIM:                           | 1                  |          |
| LINE COUNT:                                | 207                |          |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |                    |          |

L4 ANSWER 30 OF 35 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

| ACCESSION NUMBER:      | 970703   | EUROPATFULL EW 200002 FS OS |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
|------------------------|--|-----------------------------|-----------|------|------|-----------|----|----------|--|--|----------|----------------------|--|--|--------------------|----------------|----------|------------------------|----------------|----------|---------------------|-----------|-----|
| TITLE:                 | Stable, aqueous alfa interferon solution formulations.<br>Stabile Formulierungen mit waessrige Alpha-Interferon Loesungen.<br>Formulations stables de solutions aqueuses d' alpha interferon.  |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| INVENTOR(S):           | Yuen, Pui-Ho C., 1 Stanford Place, Princeton Junction, New Jersey 08550, US;<br>Kline, Douglas F., 423 Garden Street, Hoboken, New Jersey 07030, US  |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| PATENT ASSIGNEE(S):    | SCHERING CORPORATION, 2000 Galloping Hill Road, Kenilworth, New Jersey 07033-0530, US  |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| PATENT ASSIGNEE NO:    | 240557   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| AGENT:                 | Schlich, George William et al., Mathys & Squire 100 Gray's Inn Road, London WC1X 8AL, GB   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| AGENT NUMBER:          | 75591  |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| OTHER SOURCE:          | BEPA2000003 EP 0970703 A1 0018   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| SOURCE:                | Wila-EPZ-2000-H02-T1b  |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| DOCUMENT TYPE:         | Patent   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| LANGUAGE:              | Anmeldung in Englisch; Veroeffentlichung in Englisch   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| DESIGNATED STATES:     | R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R NL; R PT; R SE; R LT; R LV   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| PATENT INFO.PUB.TYPE:  | EPA1 EUROPÆISCHE PATENTANMELDUNG   |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| PATENT INFORMATION:    | <table> <thead> <tr> <th>PATENT NO</th> <th>KIND</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>EP 970703</td> <td>A1</td> <td>20000112</td> </tr> <tr> <td></td> <td></td> <td>20000112</td> </tr> <tr> <td>'OFFENLEGUNGS' DATE:</td> <td></td> <td></td> </tr> <tr> <td>APPLICATION INFO.:</td> <td>EP 1999-119434</td> <td>19951010</td> </tr> <tr> <td>PRIORITY APPLN. INFO.:</td> <td>US 1994-329813</td> <td>19941011</td> </tr> <tr> <td>RELATED DOC. INFO.:</td> <td>EP 777495</td> <td>DIV</td> </tr> </tbody> </table> |                             | PATENT NO | KIND | DATE | EP 970703 | A1 | 20000112 |  |  | 20000112 | 'OFFENLEGUNGS' DATE: |  |  | APPLICATION INFO.: | EP 1999-119434 | 19951010 | PRIORITY APPLN. INFO.: | US 1994-329813 | 19941011 | RELATED DOC. INFO.: | EP 777495 | DIV |
| PATENT NO              | KIND   | DATE                        |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| EP 970703              | A1   | 20000112                    |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
|                        |  | 20000112                    |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| 'OFFENLEGUNGS' DATE:   |  |                             |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| APPLICATION INFO.:     | EP 1999-119434   | 19951010                    |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| PRIORITY APPLN. INFO.: | US 1994-329813   | 19941011                    |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |
| RELATED DOC. INFO.:    | EP 777495  | DIV                         |           |      |      |           |    |          |  |  |          |                      |  |  |                    |                |          |                        |                |          |                     |           |     |

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GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 831773      EUROPATFULL EW 199948 FS PS  
TITLE: PEPTIDE/PROTEIN SUSPENDED FORMULATIONS.  
FORMULIERUNGEN ZUM SUSPENDIEREN: VON PROTEINE UND  
PEPTIDEN.  
PREPARATIONS DE SUSPENSION DES PEPTIDES OU DES  
PROTEINES.  
INVENTOR(S): ECKENHOFF, James B., deceased, US;  
HOLLADAY, Leslie A., Apartment 96 1200 Dale Avenue,  
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PATENT ASSIGNEE(S): ALZA CORPORATION, 950 Page Mill Road P.O. Box 10950,  
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AGENT: Stebbing, Peter John Hunter et al., Ablett & Stebbing,  
Caparo House, 101-103 Baker Street, London W1M 1FD, GB  
47943  
AGENT NUMBER:  
OTHER SOURCE: EPB1999065 EP 0831773 B1 991201  
SOURCE: Wila-EPS-1999-H48-T1  
DOCUMENT TYPE: Patent  
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FI; R FR; R GB; R  
GR; R IE; R IT; R LI; R LU; R NL; R PT; R SE  
PATENT INFO. PUB. TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT (Internationale  
Anmeldung)  
PATENT INFORMATION:

|                        | PATENT NO      | KIND   | DATE          |
|------------------------|----------------|--------|---------------|
| 'OFFENLEGUNGS' DATE:   | EP 831773      | B1     | 19991201      |
| APPLICATION INFO.:     |                |        | 19980401      |
| PRIORITY APPLN. INFO.: | EP 1996-920358 |        | 19960522      |
|                        | US 1995-475238 |        | 19950607      |
| RELATED DOC. INFO.:    | WO 96-US7377   | 960522 | INTAKZ        |
|                        | WO 9640049     | 961219 | INTPNR        |
| REFERENCE PAT. INFO.:  | EP 374120 A    |        | WO 95-34285 A |
|                        | US 4855141 A   |        |               |

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GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 777495      EUROPATFULL EW 200029 FS PS  
TITLE: STABLE, AQUEOUS ALFA INTERFERON SOLUTION FORMULATIONS.  
STABILE, WAESSRIGE ALPHA-INTERFERON LOESUNGEN.  
FORMULATIONS DE SOLUTIONS AQUEUSES STABLES D'INTERFERON  
ALPHA.

INVENTOR(S): YUEN, Pui-Ho C., 1 Stanford Place, Princeton Junction,  
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 KLINE, Douglas F., 423 Garden Street, Hoboken, NJ  
 07030,  
 US  
 PATENT ASSIGNEE(S): SCHERING CORPORATION, 2000 Galloping Hill Road,  
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 PATENT ASSIGNEE NO: 240557  
 AGENT: Schlich, George William et al., Mathys & Squire  
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 Patent Attorneys, 100 Gray's Inn Road, London WC1X 8AL,  
 GB  
 AGENT NUMBER: 75591  
 OTHER SOURCE: BEPB2000038 EP 0777495 B1 0020  
 SOURCE: Wila-EPS-2000-H29-T1  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
 DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R  
 IE; R IT; R LI; R LU; R NL; R PT; R SE; R LT; R LV  
 PATENT INFO. PUB. TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT (Internationale  
 Anmeldung)  
 PATENT INFORMATION:

|                        | PATENT NO  | KIND DATE     |
|------------------------|--|---------------|
| 'OFFENLEGUNGS' DATE:   | EP 777495  | B1 20000719   |
| APPLICATION INFO.:     | EP 1995-935151   | 19951010      |
| PRIORITY APPLN. INFO.: | US 1994-329813   | 19941011      |
| RELATED DOC. INFO.:    | WO 95-US12362  | 951010 INTAKZ |
|                        | WO 9611018   | 960418 INTPNR |
| REFERENCE PAT. INFO.:  | EP 284249 A  | US 4675183 A  |
|                        | US 4847079 A   | US 5266310 A  |
| REF. NON-PATENT-LIT.:  | DATABASE WPI Section Ch, Week 8703 Derwent Publications<br>Ltd., London, GB; Class B04, AN 87-018978 &<br>JP-A-61277633 (TORAY IND INC), 8 December 1986 DATABASE<br>WPI Section Ch, Week 8446 Derwent Publications Ltd.,<br>London, GB; Class B04, AN 84-285358 &<br>JP-A-59176216 (SUMITOMO CHEMICAL KK), 5 October 1984 |               |

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PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 428876 EUROPATFULL EW 199122 FS OS STA B  
 TITLE: Method for the prevention and treatment of bovine  
 mastitis.  
 Methode zur Vorbeugung und zur Behandlung von boviner  
 Mastitis.  
 Methode pour la prevention et le traitement de la  
 mastite bovine.  
 INVENTOR(S): Sordillo, Lorraine M., 119 Willoughby Crescent,  
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 Babiuk, Lorne A., 245 East Place, Saskatoon, SK S7J  
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 PATENT ASSIGNEE NO: 201300  
 AGENT: Zumstein, Fritz, Dr. et al, Braeuhausstrasse 4, W-8000  
 Muenchen 2, DE  
 AGENT NUMBER: 13562

OTHER SOURCE: ESP1991039 EP 0428876 A2 910529  
 SOURCE: Wila-EPZ-1991-H22-T1  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
 DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU; R NL; R SE  
 PATENT INFO.PUB.TYPE: EPA2 EUROPÆISCHE PATENTANMELDUNG  
 PATENT INFORMATION:

| PATENT NO | KIND | DATE     |
|-----------|------|----------|
| EP 428876 | A2   | 19910529 |

'OFFENLEGUNGS' DATE: 19910529  
 APPLICATION INFO.: EP 1990-120200 19901022  
 PRIORITY APPLN. INFO.: US 1989-426287 19891024

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GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 386106 EUROPATFULL EW 199409 FS PS STA B  
 TITLE: GAMMA INTERFERON FORMULATION.  
 GAMMA-INTERFERON-FORMULIERUNG.  
 COMPOSITION D'INTERFERON GAMMA.  
 INVENTOR(S): HWANG-FELGNER, Jiin-Yu, Vical/10955 John J. Hopkins,  
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 San Francisco California 94080, US  
 PATENT ASSIGNEE(S): 210480  
 PATENT ASSIGNEE NO: Armitage, Ian Michael et al, MEWBURN ELLIS 2 Cursitor  
 Street, London EC4A 1BQ, GB  
 AGENT NUMBER: 27761  
 OTHER SOURCE: EPB1994015 EP 0386106 B1 940302  
 SOURCE: Wila-EPS-1994-H09-T1  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
 DESIGNATED STATES: R AT; R BE; R CH; R DE; R FR; R GB; R IT; R LI; R LU; R NL; R SE  
 PATENT INFO.PUB.TYPE: EPB1 EUROPÆISCHE PATENTSCHRIFT (Internationale  
 Anmeldung)  
 PATENT INFORMATION:

| PATENT NO | KIND | DATE     |
|-----------|------|----------|
| EP 386106 | B1   | 19940302 |

'OFFENLEGUNGS' DATE: 19900912  
 APPLICATION INFO.: EP 1988-910211 19881101  
 PRIORITY APPLN. INFO.: US 1987-116434 19871103  
 RELATED DOC. INFO.: WO 88-US3883 881101 INTAKZ  
 WO 8904177 890518 INTPNR  
 REFERENCE PAT. INFO.: EP 8079 A EP 258683 A  
 REF. NON-PATENT-LIT.: Patent Abstr. of Japan, vol. 9, no. 28 (C-264) (1751),  
 06.02.85  
 Patent Abstr. of Japan, vol. 11, no. 139 (C-420) (2586),  
 07.05.87

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GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 215658 EUROPATFULL EW 199422 FS PS STA B  
TITLE: Improved formulation for recombinant beta-interferon processes for recovery and stabilization of beta-interferon and the use thereof.  
Formulierung fuer rekombinantes beta-Interferon, Verfahren zur Gewinnung und Stabilisierung des beta-Interferons und dessen Verwendung.  
Formulation pour l'interferon beta recombinant,  
procedes pour la recuperation et la stabilisation de  
l'interferon beta et son application.  
INVENTOR(S): Hanisch, Wolfgang Helmut, 23 Barton Parade Balmoral Heights, Brisbane Queensland, AU;  
Taforo, Terrance, 379A Somerset Road, Oakland California 94611, US;  
Fernandes, Peter Michael, 216 Happy Hollow Court, Lafayette California 94596, US  
CETUS ONCOLOGY CORPORATION, 1400 Fifty-Third Street, Emeryville California 94608, US  
PATENT ASSIGNEE(S): 229563  
PATENT ASSIGNEE NO: Bizley, Richard Edward et al, HEPWORTH LAWRENCE BRYER &  
AGENT: BIZLEY 2nd Floor Gate House South West Gate, Harlow Essex CM20 1JN, GB  
AGENT NUMBER: 28352  
OTHER SOURCE: EPB1994038 EP 0215658 B1 940601  
SOURCE: Wila-EPS-1994-H22-T1  
DOCUMENT TYPE: Patent  
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
DESIGNATED STATES: R AT; R BE; R CH; R DE; R FR; R GB; R IT; R LI; R NL; R SE  
PATENT INFO.PUB.TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT  
PATENT INFORMATION:

|                        | PATENT NO      | KIND          | DATE     |
|------------------------|----------------|---------------|----------|
| 'OFFENLEGUNGS' DATE:   | EP 215658      | B1            | 19940601 |
| APPLICATION INFO.:     | EP 1986-307070 |               | 19870325 |
| PRIORITY APPLN. INFO.: | US 1985-775751 |               | 19860912 |
| REFERENCE PAT. INFO.:  | EP 52861 A     | EP 89245 A    | 19850913 |
|                        | EP 158487 A    | WO 83-03103 A |          |
|                        | US 4462940 A   |               |          |